

Figure 1

1	GmANT1	50	401	450
GmANT2	50	GmANT1	401	450
ANT	50	GmANT2	401	450
51	51	ANT	401	450
GmANT1	51	GmANT1	401	450
GmANT2	51	GmANT2	401	450
ANT	51	ANT	401	450
101	101	GmANT1	401	450
GmANT1	101	GmANT2	401	450
GmANT2	101	ANT	401	450
ANT	101	GmANT1	401	450
151	151	GmANT2	401	450
GmANT1	151	ANT	401	450
GmANT2	151	GmANT1	401	450
ANT	151	GmANT2	401	450
201	201	ANT	401	450
GmANT1	201	GmANT1	401	450
GmANT2	201	GmANT2	401	450
ANT	201	ANT	401	450
251	251	GmANT1	401	450
GmANT1	251	GmANT2	401	450
GmANT2	251	ANT	401	450
ANT	251	GmANT1	401	450
301	301	GmANT2	401	450
GmANT1	301	ANT	401	450
GmANT2	301	GmANT1	401	450
ANT	301	GmANT2	401	450
351	351	ANT	401	450
GmANT1	351	GmANT1	401	450
GmANT2	351	GmANT2	401	450
ANT	351	ANT	401	450
401	401	GmANT1	401	450
GmANT1	401	GmANT2	401	450
GmANT2	401	ANT	401	450
ANT	401	GmANT1	401	450

g1244708	1	-----MKSFCDNDNNHSNTTLNLFSGFSSNNMKKGGGRGRRAIY-----	40
GmANT1	1	-----MKRINESNTDDNNHNLGFGF-----HKKEA-----	31
OsANT2	1	MASGNSSSSGSMARATAGVGGGNNLSPSPH-----HMATYCACGVRDVG-HHHH-----	48
GhANT1	1	-----MSNNLGGFGF-----DRIEDSFARDHGFF-----	28
GmANT2	1	-----MKSMENDDNADLNQNNHGGFSGFQMHNTGVSSHSPSSAAEWPTSFYHHTAPLSSYGYY-----	63
OsANT1	1	-----MASGCGSSNLGFGFSPHMPAEVFPSSSPSTAAHHH-----HHHHPPAA-----	45
g1244708	41	-----SSSTSSAATSSSSVPPALVGDNTSNFVGYGSPNPGG-----IYSHMSV-----	85
GmANT1	32	-----TGAATVPITTYMSPSQ-----SHLSNFCMYGVGENGN-----FHSPLTY-----	71
OsANT2	49	-----HHVHQHQHQHGGGLNYN-----PAAYASSFYGGCHDAVWTSAGGGGYYGGGFS-----	99
GhANT1	29	-----	30
GmANT2	64	GLEAENVGLYSALP-----	78
OsANT1	46	-----DGAATTCNFLSPPAAGVWAPPGYYVYGGAYGDTSTAGVYY-----SHLPV-----	103
g1244708	86	-----SHSNHHQD-----SPKVEEFFG-----THHN-----	125
GmANT1	72	-----ATVAVVPT-----SPKVSFFG-----GATMGT-----	113
OsANT2	100	-----DMEGGVVV-----SPKLEFF-----	137
GhANT1	31	-----SIARDEDWRYENGICGSATANEQGPKE-----CYSNSPSQETKAYCGTHEN-----	98
GmANT2	79	-----DAGVATT-----TPKLEFF-----GEAMGTPPHYECSATETMP-----	133
OsANT1	104	-----	131
g1244708	126	-----NTSHKEAMDILDLFLN-----TTHPNTTTNFQEFFS-----	159
GmANT1	114	-----HEYGSHERGLSDSIYNSQNAEAPNRDLLSQPFRQQGHMSVQT-----	158
OsANT2	138	-----AGPAMALSLNSAAYGGGHGHHQGHADGGGAYGGDPHHGG-----	177
GhANT1	99	QNTVPSPTRIINVNAVPIYSSSGD-----AEAENLNPFSIQTRYNNYNPQTLMAG-----	152
GmANT2	134	LSLDSVFIQPSRRDPNNQTY-----QNHVQHTSTNQQQQQQELQAYYSTLRNHDMILE-----	188
OsANT1	132	-----CGNGSGHHPATYYSGQGQEAQDASRAAYQHHQLVP-----	165
g1244708	160	-----FPATRNHEETRN-YGN-----PSLTHGGSNVGYGEF-----QSLSLSMSPS-----	205
GmANT1	159	HPYYSGLACHLYCAPLEEITTKETHVSSCSSLMQMTGELKNLAPTRFESTQVLEQQMNCMGN-----	226
OsANT2	178	-----GFLDCAVIPGAG-----H-----AALVHDQSAARYAAGWAMGGGYDIANAARDDV-----	228
GhANT1	153	-----HSLQCDPNPNHNR-----SG-----YHHVPFE SATSVSGFKSWLRATFPFGKASGN-----	201
GmANT2	189	-----ESKQSQTSDNNLHVQNMG-GDDAVPVPGLKJAEVRNFQASHAE SKMIVPHEENAG-----	245
OsANT1	166	-----YNYDPLTEAMLQEAARAP-MEDAMAAA--KNFLATSYGACYGN-----EMPQPLSLSMSP-----	219
g1244708	206	-----QSSCITGSHHHQNNQNHQSNHQIQISEALVETTVGVFETTTAAAK-----QEDVWVWVSGKGLTHRK-----	272
GmANT1	227	ERNGVSLGVCCGLASLSLSMSPGSQLSCVTAPS-----GTDS AVDA-----AALGAPVARK-----	287
OsANT2	229	CAAGPIIPTGHLHPLTSMSSGSSCVTVQAAGAGEPYMAKDAYS-----G-----ADRAQGPVARK-----	294
GhANT1	202	-----ETNNNFNALSMTG-----PTSRVNGFPPIAP-----LEVVDNLRP-----VGNLTPSPRK-----	252
GmANT2	246	ESGIGSMAYDLSLSMSPS-----SDSSVNTSSHRSPAVVDSVAMDT-----EVDGLVARK-----	309
OsANT1	220	GSQSSSCVRAAPQCHQMAVAA-AAAAGDGGGSSNDGGEQRAG-----KRT-----CGGKKQVARK-----	280

Figure 2b

g1244708	273	SDITFGQRTSDYRGVTRHRTUTR	340	GGDMEKKAARQDDEALVW
GmANT1	288	SDITFGQRTSDYRGVTRHRTUTR	355	GGDMEKKAARQDDEALVW
OsANT2	295	SDITFGQRTSDYRGVTRHRTUTR	362	GGDMEKKAARQDDEALVW
GhANT1	253	SDITFGQRTSDYRGVTRHRTUTR	320	GGDMEKKAARQDDEALVW
GmANT2	310	SDITFGQRTSDYRGVTRHRTUTR	377	GGDMEKKAARQDDEALVW
OsANT1	281	SDITFGQRTSDYRGVTRHRTUTR	348	GGDMEKKAARQDDEALVW
g1244708	341	PSITISAEYKKEEDYKINERQEE	408	RGVTRHCHGRUQAARIGRYAEN
GmANT1	356	PSITISAEYKKEEDYKINERQEE	423	RGVTRHCHGRUQAARIGRYAEN
OsANT2	363	PSITISAEYKKEEDYKINERQEE	430	RGVTRHCHGRUQAARIGRYAEN
ZmANT1	1	PRKSGGFSRGASTYRGVTRHCHGRUQAARIGRYAEN	37	RGVTRHCHGRUQAARIGRYAEN
GhANT1	321	GPFTAHENFQSTYKKEEDYKINERQEE	388	RGVTRHCHGRUQAARIGRYAEN
GmANT2	378	GPFTAHENFQSTYKKEEDYKINERQEE	445	RGVTRHCHGRUQAARIGRYAEN
OsANT1	349	GLTEHNEFLNYDIEEYERHREY	416	RGVTRHCHGRUQAARIGRYAEN
g1244708	409	KDLYLGTFG	462	SSNLLSGE
GmANT1	424	KDLYLGTFG	477	SSNLLAGE
OsANT2	431	KDLYLGTFG	498	SSNLLAGE
ZmANT1	38	KDLYLGTFG	91	SSNLLAGE
GhANT1	389	KDLYLGTFG	442	SSNLLAGE
GmANT2	446	KDLYLGTFG	499	SSNLLAGE
OsANT1	417	KDLYLGTFG	470	SSNLLAGE
g1244708	463	LARR	475	IVNRN
GmANT1	478	LARRKNDPRNKDIDYKSVV	545	IVNRN
OsANT2	499	LARRKGVG	553	IVNRN
ZmANT1	92	QVARR	141	IVNRN
GhANT1	443	LAKRSP	495	IVNRN
GmANT2	500	LARRNRETQNETQCIDQNHKPSV	567	IVNRN
OsANT1	471	LARRVKAIEAAPDHPVIGR	529	IVNRN
g1244708	476	-----TEDQTALNAVVE	499	-----GSKVSV
GmANT1	546	IMNCGNYRNSAFSMALQDLGIDSVGSSQHNMLEDSSKI	611	-----GSKVSV
OsANT2	554	GGHQHDLPLPSDAFSLQDVTSTDAAPRAPHMSMAAT	608	-----GSKVSV
ZmANT1	142	QQRQD--LLSSEAFSLHDVVS--DAAGTGTGTGGM	196	-----GSKVSV
GhANT1	496	QQHQS--TNTNDA	524	-----GSKVSV
GmANT2	568	TN-----QSFAYADNMFHQEEESKARTHV	616	-----GSKVSV
OsANT1	530	QKG-----FMGDAHSALHGIAGFDVESAARDEIDVPGGKISGINFSSSS	591	-----GSKVSV
g1244708	500	-----LLSFPAIFALPQVNQKMFGSN	551	-----MGGNMS
GmANT1	612	SLL--FPMPPMETKIVNP	659	-----MGGNMS
OsANT2	609	GGGGGGGLVATLFAKPAARSKLYSPVP	665	-----MGGNMS
ZmANT1	197	GGASLAMLF--AKPVAAPKLACPLP	246	-----MGGNMS
GhANT1	525	GSIGLASDKFGIGGDDYSHHGYSFLKSGSKYEDGNSETDNSNRLGNLGLVHK	582	-----MGGNMS
GmANT2	617	LPMLSGMPSTASKLL	661	-----MGGNMS
OsANT1	592	LAML-----YAKHHPTAVSLA	638	-----MGGNMS

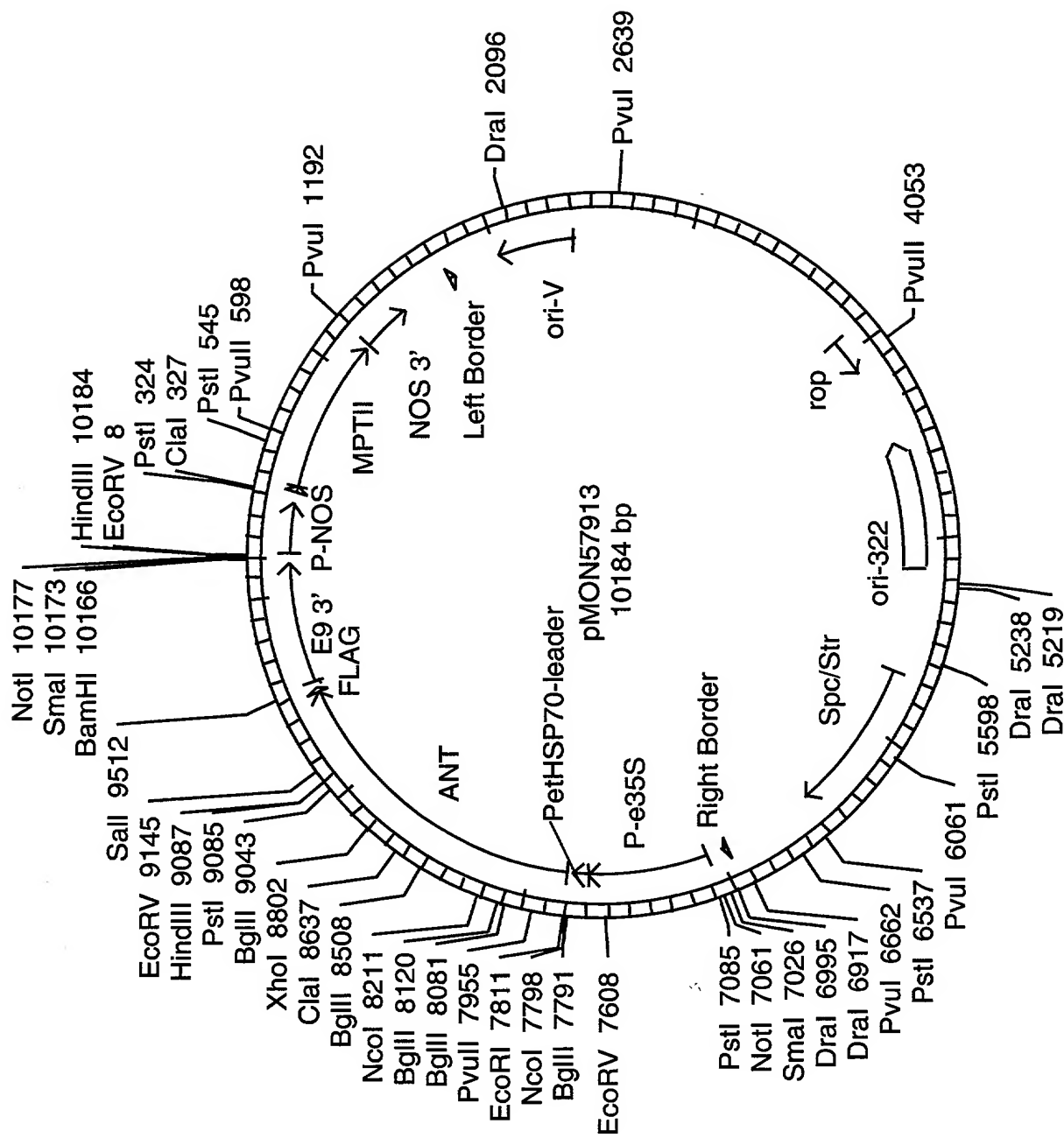


Figure 4

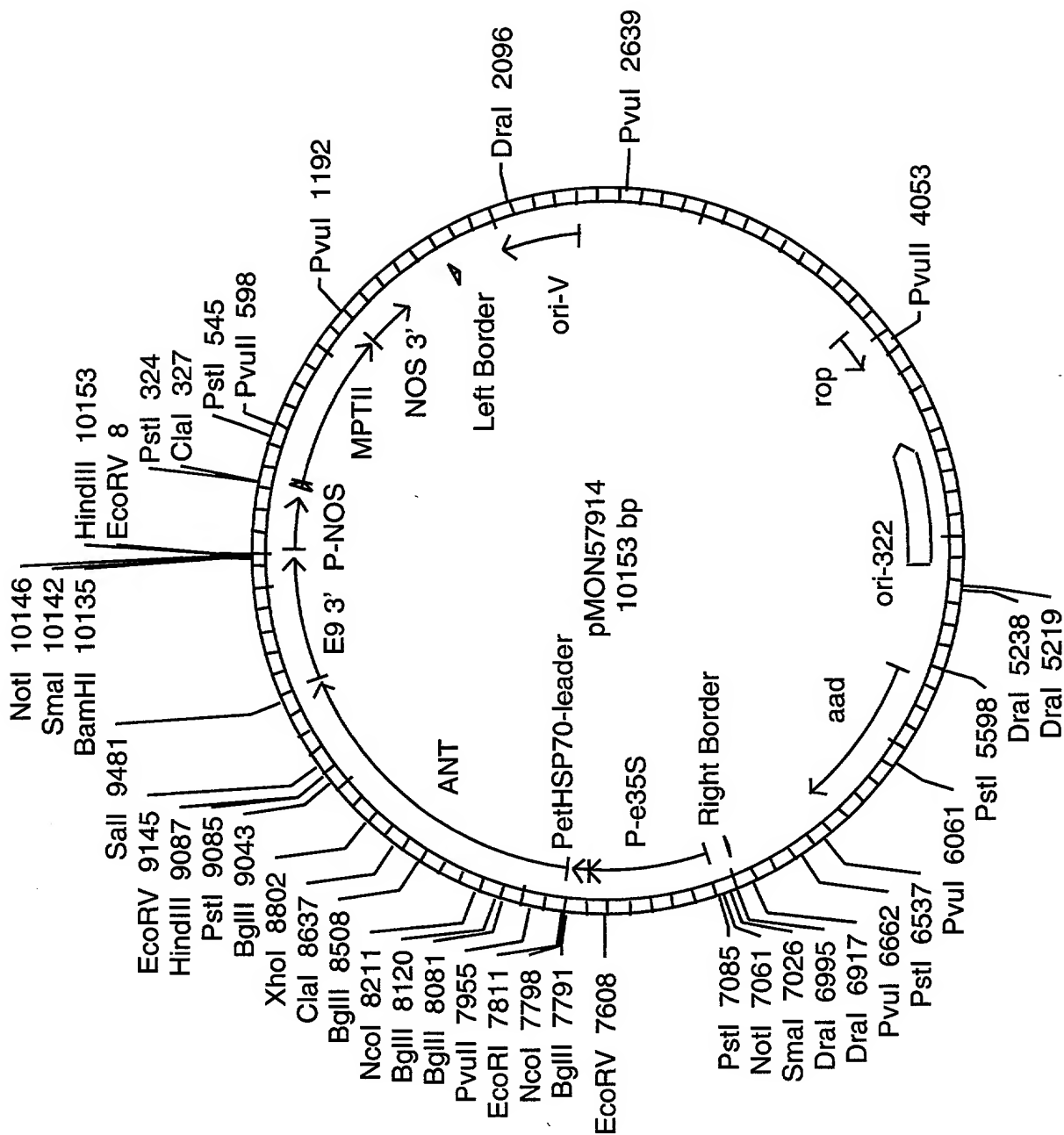
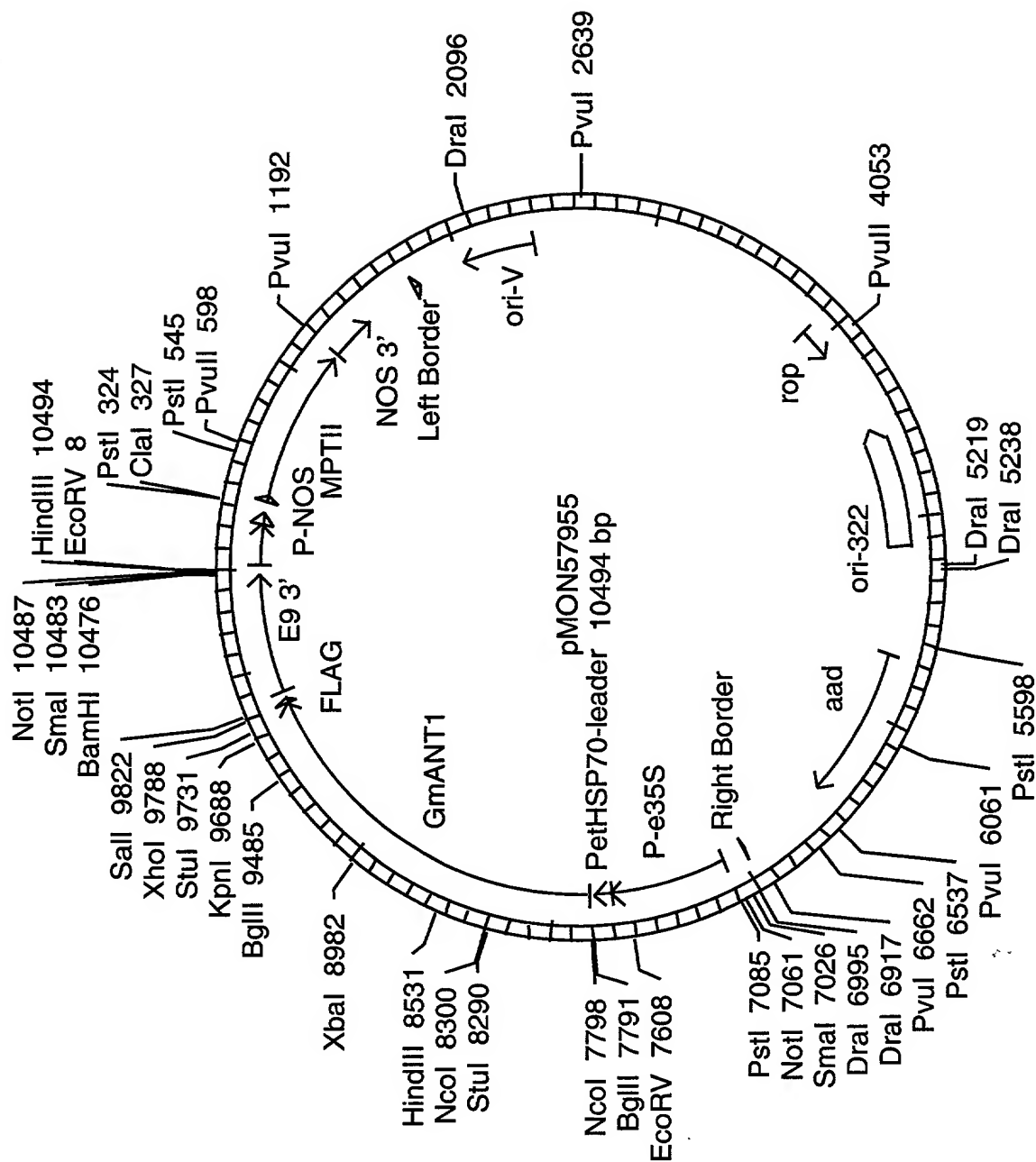


Figure 5

Figure 6



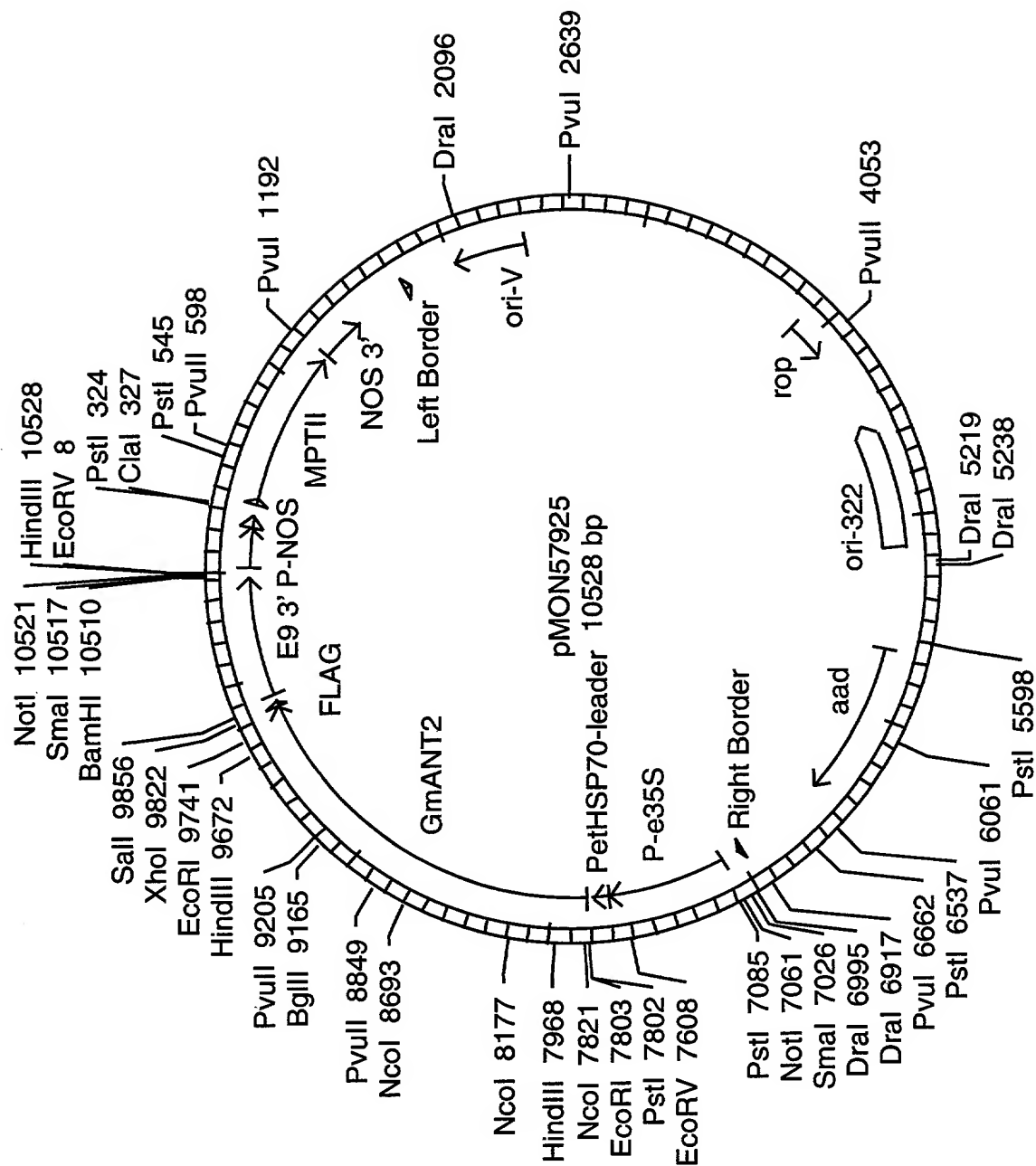


Figure 7

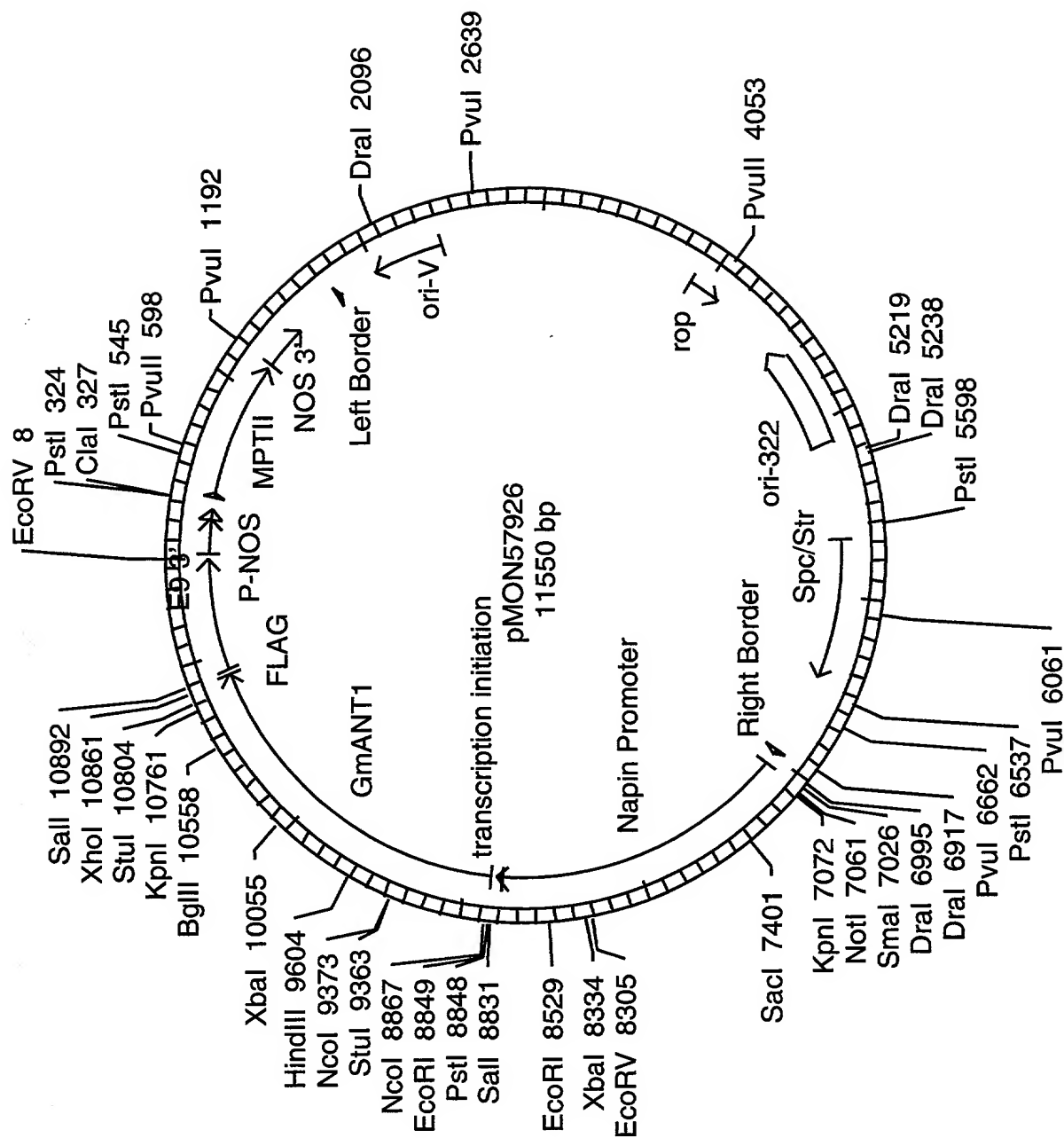


Figure 8



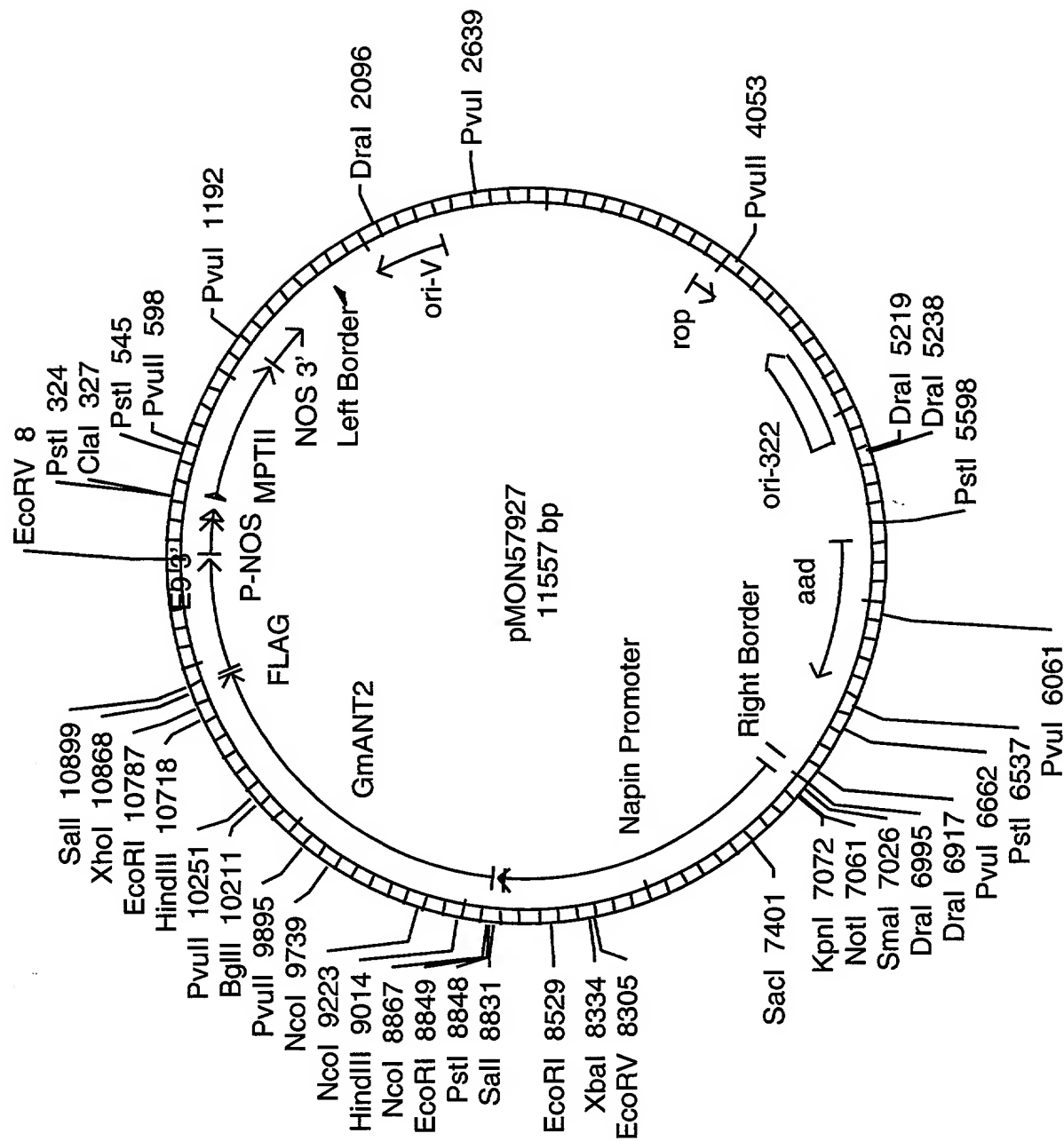
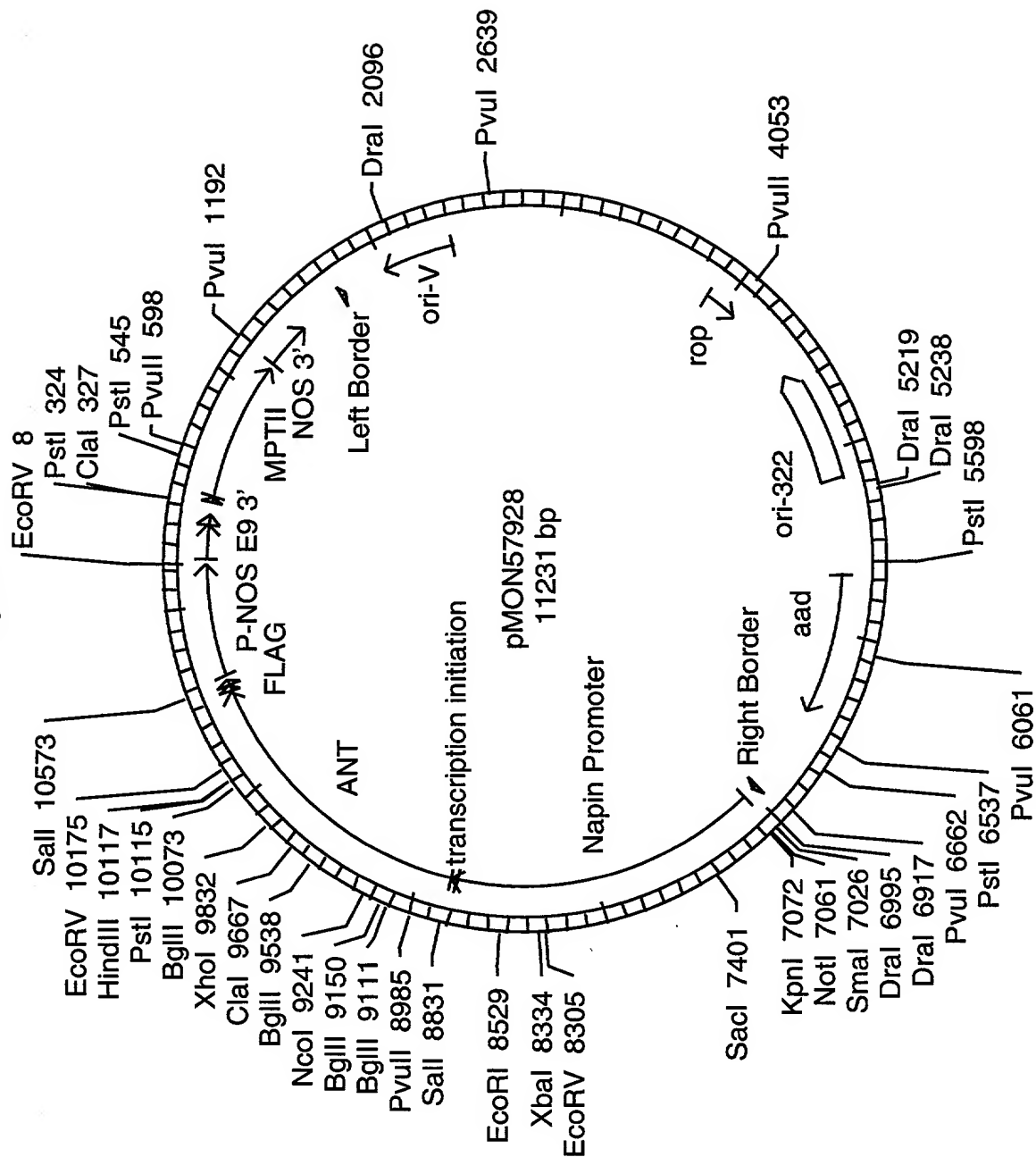


Figure 9

Figure 10



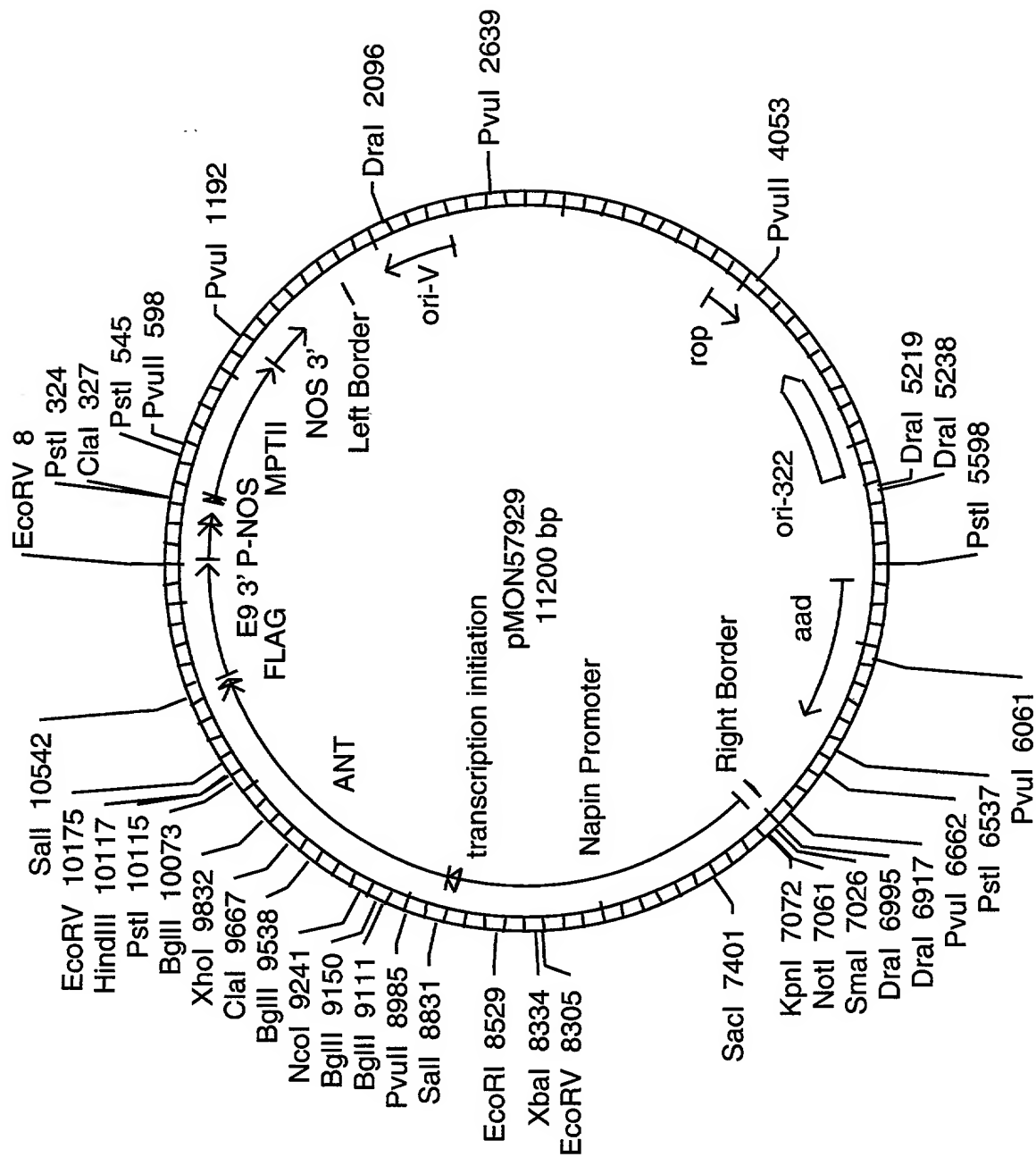


Figure 11

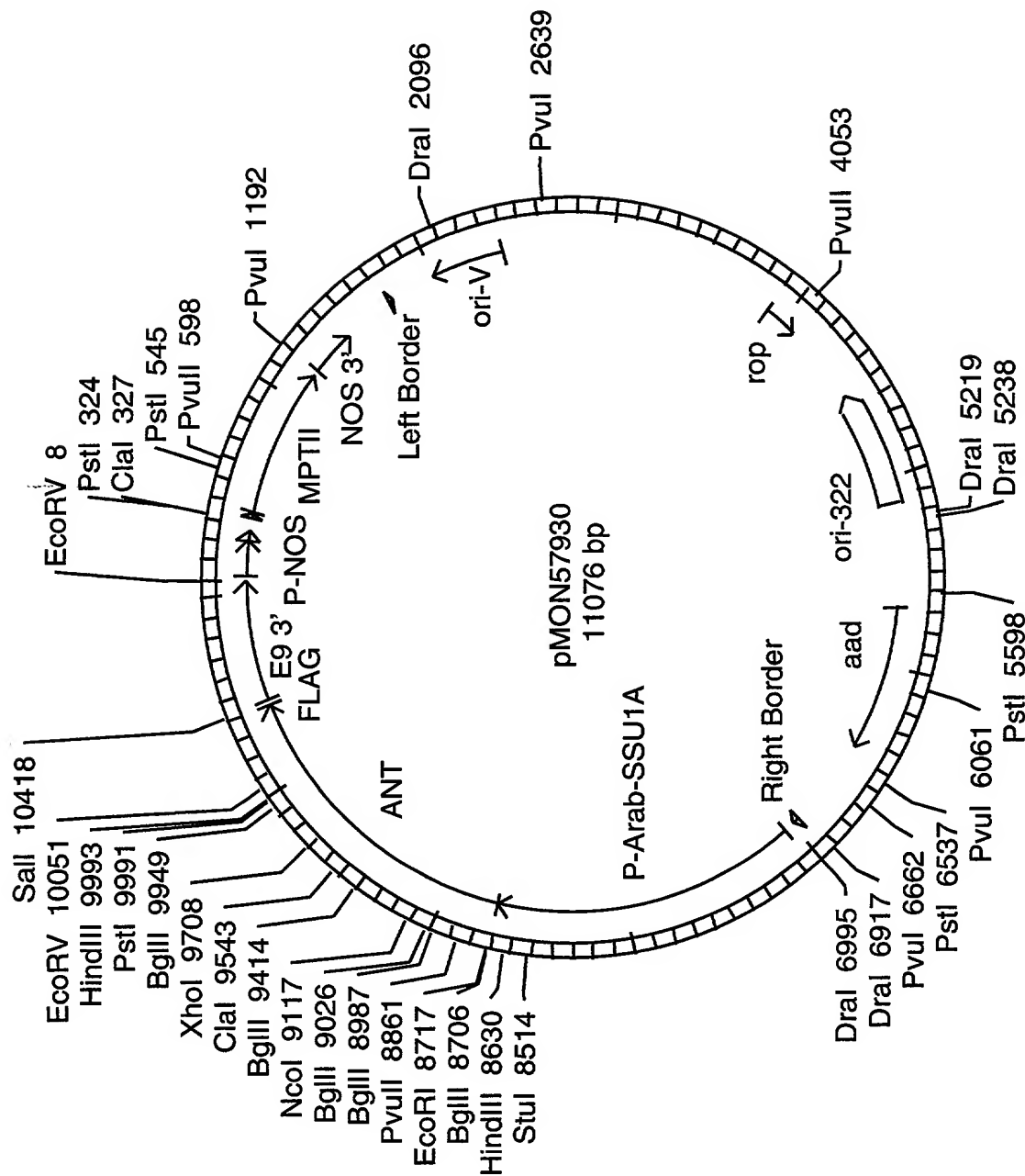


Figure 12

Figure 13

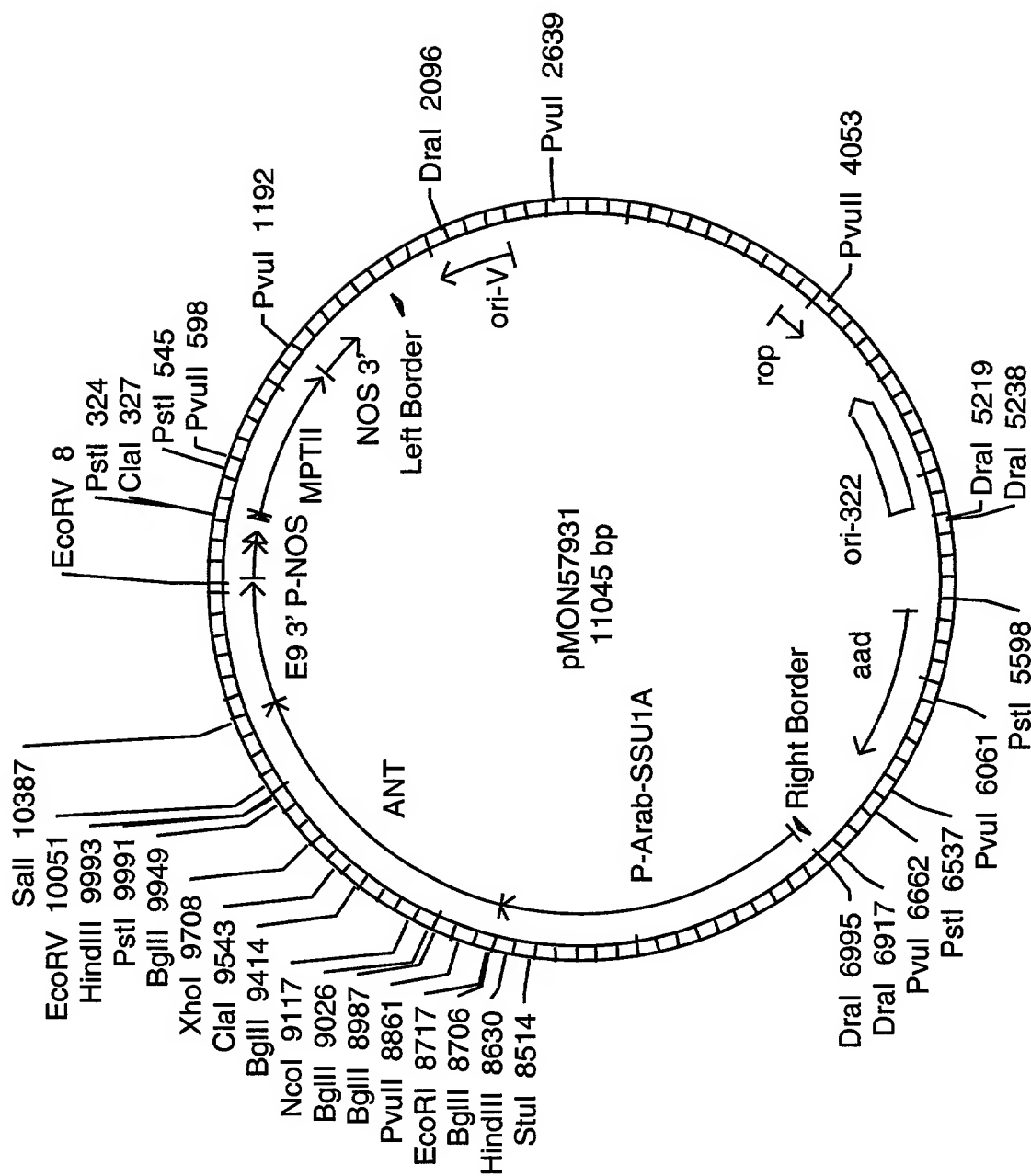


Figure 14

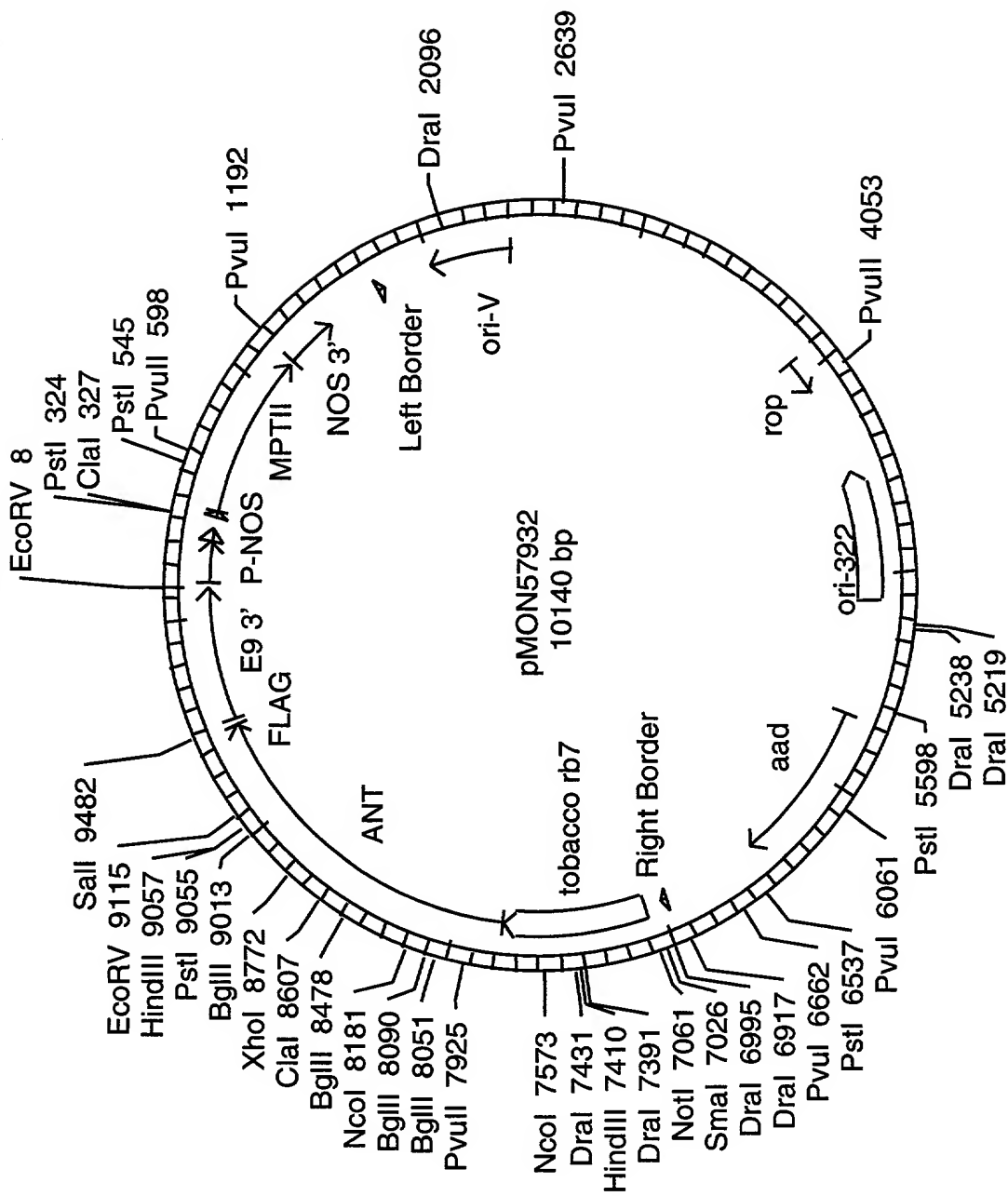


Figure 15

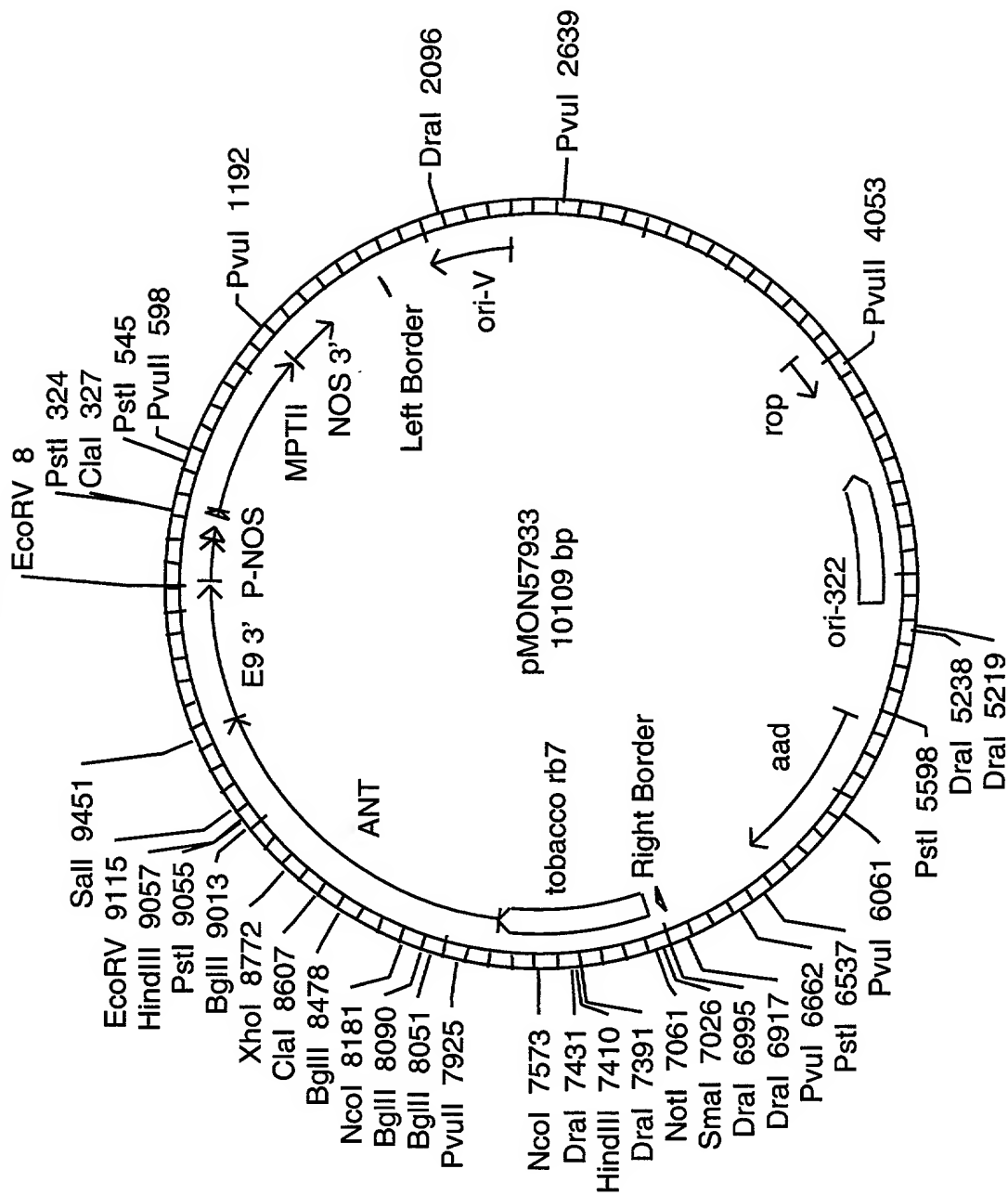


Figure 16

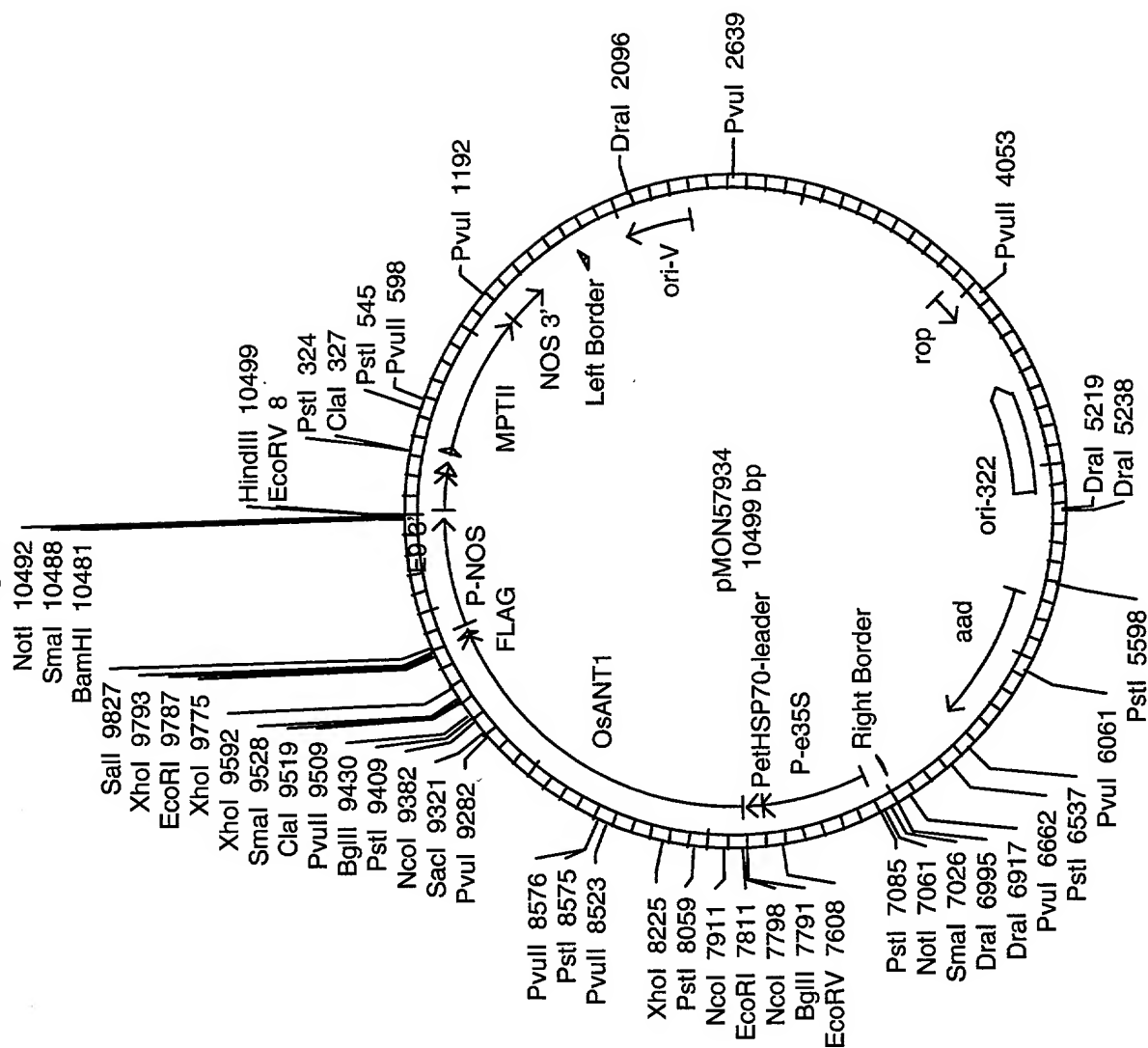




Figure 17

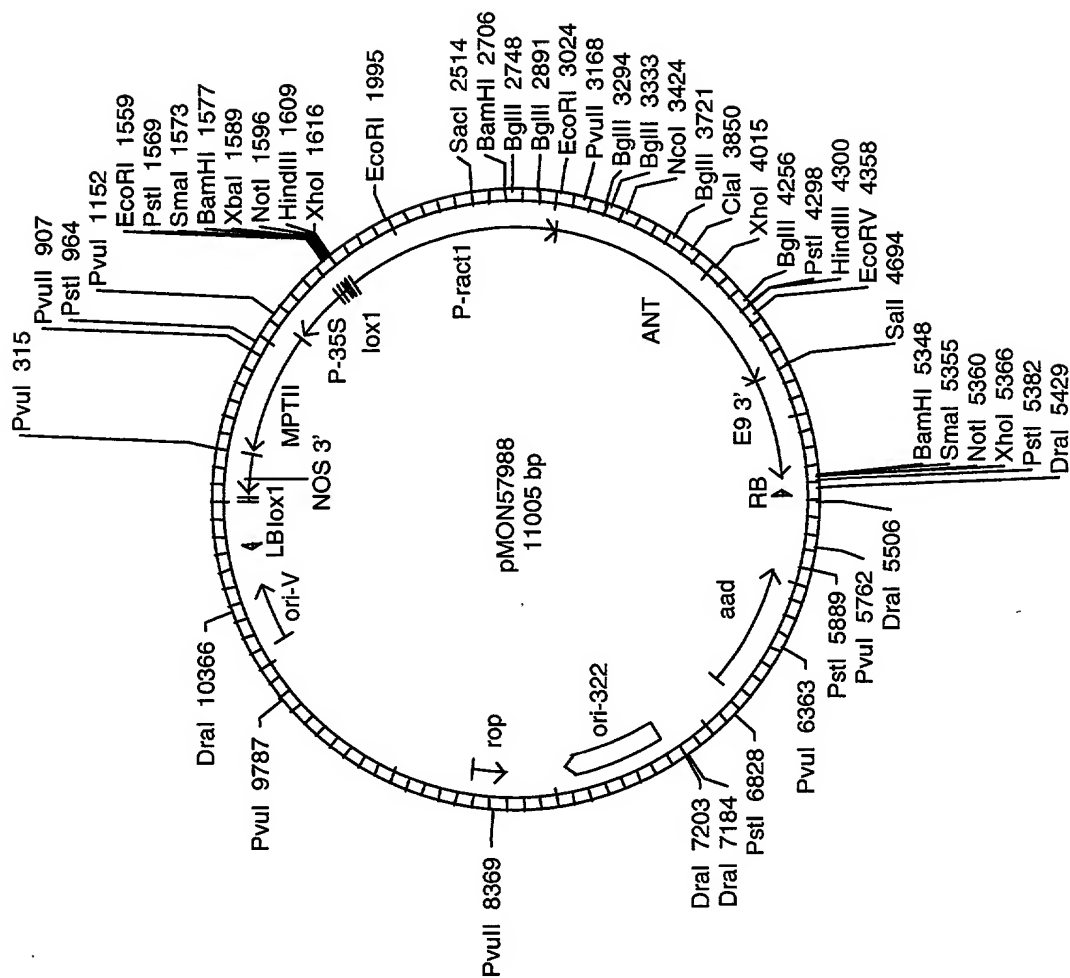


Figure 18

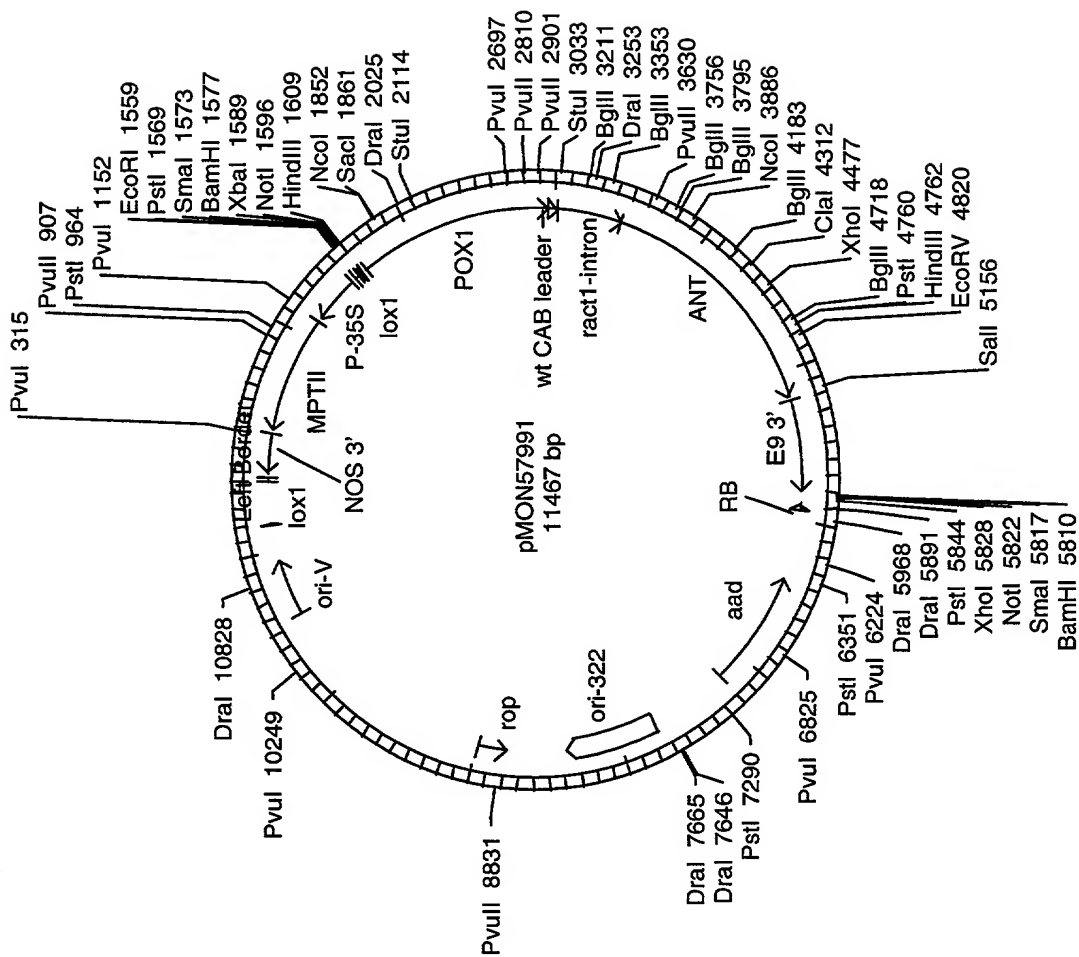


Figure 19

